

City of Escondido

Utilities Approved Materials List - Potable Water/Recycled Water

last updated 10/12/23

Lead Free parts only. All 316 stainless steel hardware

SIZE	DESCRIPTION	MANUFACTURER	NOTES
PIPE			
12" or smaller	North American, Vinly Tech, Diamond		PVC C-900
14" or larger	US Pipe, American DIP, McWayne Pipe		CMLC steel or Ductile Iron
CORPORATION STOPS			
1" AND 2"	MIP X COMPRESSION BALL CORP STOP	FORD AY MCDONALD JONES MUELLER	QUICK JOINT COMPRESSION RING
1" AND 2"	MIP X MIP BALL CORP STOP	FORD AY MCDONALD JONES MUELLER	
ANGLE METER STOPS			
3/4" AND 1"	COMPRESSION X METER SWIVEL BALL ANGLE METER STOP	FORD AY MCDONALD JONES MUELLER	QUICK JOINT COMPRESSION RING 1" COMP X 3/4" METER NUT 1" COMP X 1" METER NUT
1-1/2" AND 2"	COMPRESSION X FLANGE BALL ANGLE METER STOP	FORD AY MCDONALD JONES MUELLER	QUICK JOINT COMPRESSION RING 2" COMP X 1-1/2" FLANGE 2" COMP X 2" FLANGE
SADDLES & TAPPING SLEEVES			
1" AND 2" SADDLES WITH FIP THREADS	ACP, DIP, & C-900	FORD AY MCDONALD JONES MUELLER	BRASS SADDLE WITH DOUBLE BAND STAINLESS STEEL STRAP SADDLE USED BASED ON SYSTEM PRESSURE (FOR C900, AC AND DIP). BRASS SADDLE W/DOUBLE BAND BRASS STRAP FOR AC AND DIP.

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SADDLES & TAPPING SLEEVES CONTINUED			
3" AND ABOVE TAPPING SLEEVES WITH FLANGE	ACP, DIP, & C-900	POWER SEAL, ROMAC, JCM, SMITH BLAIR, FORD	NO RUBBER GASKETS ON FLANGE. MUST INCLUDE TEST PORT AND PLUG FOR PRESSURE TEST
COUPLINGS			
1" AND 2"	COMPRESSION X COMPRESSION MIP X COMPRESSION FIPXCOMPRESSION	FORD AY MCDONALD JONES MUELLER	USED ON COPPER TUBBING WHERE SHOWN OR APPROVED BY WATER DEPARTMENT ONLY
1" AND 2"	1" SWEAT X MALE SWEAT X SWEAT 1"SWEAT X MALE 2"SWEAT X SWEAT 2"SWEAT X SWEAT 90 ELL		USED ON COPPER TUBBING WHERE SHOWN OR APPROVED BY WATER DEPARTMENT ONLY
1" AND 2"	BRASS FIP X FIP		USED ON BRASS NIPPLES WHERE SHOWN OR APPROVED BY WATER DEPARTMENT ONLY
4" AND ABOVE	REPAIR, TRANSITION, CLOSURE	ROMAC 501 EPOXY COATED SS TRIM ROMAC MACRO EPOXY COATED SS TRIM SMITH BLAIR EPOXY COATED	ACP, DIP, PVC, STEEL WHERE SHOWN OR APPROVED BY WATER DEPARTMENT ONLY
4" AND ABOVE	FLANGE COUPLING ADAPTER FCA	ROMAC 501 EPOXY COATED SS TRIM	ACP WHERE SHOWN OR APPROVED BY WATER DEPARTMENT ONLY
4" AND ABOVE	REPAIR COUPLINGS PVC (C-900)		C-900 WHERE SHOWN OR APPROVED BY WATER DEPARTMENT ONLY

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COPPER TUBING			
1" AND 2"	TYPE "K" SOFT		1" ROLLED TUBING (SOLDER ON COUPLING ONLY ON SERVICES LONGER THAN 100' 2" SERVICES, SOLDER AT 20' AND 90 DEGREE ELL
SILVER SOLDER	15%		
SMALL FITTINGS			
1" AND 2"	BRASS FITTINGS ONLY		VARYING SIZES AND CONFIGURATIONS
VALVES			
3"-12"	GATE VALVE: RESILIENT WEDGE, NON RISING STEM, FLANGE BY FLANGE HOLIDAY FREE	MUELLER CLOW AFC	TO CONFORM TO LATEST AWWA C-509 SPECIFICATIONS. ALL STAINLESS STEEL TRIM
14"-20"	BUTTERFLY VALVE: MDT WITH BURIED SERVICE NUT HOLIDAY FREE	MUELLER PRATT	TO CONFORM TO LATEST AWWA C-504 SPECIFICATIONS. ALL STAINLESS STEEL TRIM CLASS 150B
24" AND ABOVE	BUTTERFLY VALVE: MDT WITH BURIED SERVICE NUT HOLIDAY FREE	MUELLER PRATT	TO CONFORM TO LATEST AWWA C-504 SPECIFICATIONS. ALL STAINLESS STEEL TRIM CLASS 150B

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COMBINATION AIR AND VACUUM VALVES			
1" AND 2"	COMBINATION AIR RELEASE VACUUM VALVE	1" CLA-VAL (1-33 AKCX) 2" CLA-VAL (2-33 AKCX) 1" ARI D-040 2" ARI D-040 (ARI by Dept. approval only for low pressure areas)	EPOXY COATED (CLA-VAL BLUE)ALL STAINLESS STEEL
4" AND 6"	COMBINATION AIR RELEASE VACUUM VALVE	4" APCO (149C) 6" APCO (151C) CLA-VAL 4" ARI D-060 6" ARI D-060 (ARI by Dept. approval only for low pressure zones) 4" CLA-VAL 33A FLG 6" CLA-VAL 33A FLG	EPOXY COATED -ALL STAINLESS STEEL
AUTOMATIC CONTROL VALVES			
2" AND ABOVE	AUTOMATIC PRESSURE REGULATING VALVE	CLA-VAL ALL STAINLESS STEEL TRIM	EPOXY COATED (CLA-VAL BLUE)ALL STAINLESS STEEL TRIM FLANGED
FIRE HYDRANTS			
RESIDENTIAL	ONE 4" AND ONE 2-1/2" OUTLETS	CLOW 850	
COMMERCIAL	TWO 4" AND ONE 2-1/2" OUTLETS	CLOW 865	
6" BURY ELL	PUSH-ON X FLANGE (C-900) FLANGE X FALNGE (STEEL & DI)		6 BOLT PATTERN

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FIRE HYDRANTS CONTINUED			
6" SPOOLS	FLANGE X FLANGE VARYING SIZES		6 BOLT PATTERN NO BREAK-OFF SCORE
6" BREAK-OFF SPOOL	FLANGE X FLANGE		6 BOLT PATTERN BREAK-OFF SCORE
METER BOXES			
3/4" AND 1" METER	#4-1/2 POLYMER CONCRETE BOX WITH READER LID #4-1/2 CONCRETE BOX WITH LID	J & R PROVIDED BY CITY	POLY BOX IN LANDSCAPED AREAS, CONCRETE BOX IN TRAFFIC AREAS RECYCLED WATER SERVICE LIDS TO READ "RECYCLED WATER"
1-1/2" AND 2" METER	#6B POLYMER CONCRETE BOX WITH READER LID	J & R PROVIDED BY CITY	POLY BOX IN LANDSCAPED AREAS, CONCRETE BOX IN TRAFFIC AREAS RECYCLED WATER SERVICE LIDS TO READ "RECYCLED WATER"
PIPE FITTINGS			
4" AND LARGER	STEEL WELD, FLANGE X FLANGE, FLANGE X PUSH-ON, PUSH-ON X PUSH-ON, MECHANICAL JOINT, RESTRAINED MECHANICAL JOINT	TYLER, STAR (NO PUSH-ON)	ALL STAINLESS STEEL TRIM AND HARDWARE

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DOMESTIC BACKFLOW PREVENTER			
3/4" - 2"	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER	WILKINS 975XL2, 375XL WATTS LF009-FS, LF919 AMES LF4000B FEBCO LF825Y, LF825YA	LEAD FREE DEVICES ONLY
2 1/2" - 10"	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER	WILKINS 375A, 475 WATTS 957-FS, 994-FS FEBCO LF860 AMES 4000SS-FS	LEAD FREE DEVICES ONLY
FIRE DETECTOR CHECK ASSEMBLY			
4"-10"	VALVES MUST BE OS&Y - STYLE OF ASSEMBLY CAN VARY PER AREA & APPLICATION	(USC APPROVED ASSEMBLY) ZURN 375DA, 475DA WATTS LF957RPDA-FS FEBCO LF886V-FS AMES LFC500-FS, LFM500 DERINGER 50GX, 50G (3/4" WATER METER MUST BE PURCHASED FROM THE CITY OF ESCONDIDO)	(RPDA) REDUCED PRESSURE DETECTOR ASSEMBLY



City of Escondido Utilities Approved Materials List - Wastewater

last updated 10/2023

Materials	Manufacturer (Series/Model)	Additional Requirements/Comments
Piping 18" and smaller		PVC - SDR 35 (C-905 shall be used on force mains and in easements)
Piping Larger than 18"		High Density Polyethylene or C-900 for trunks
Repair or Transition Couplings	Mission Flex-Seal Adjustable Repair Coupling (MR01) Fernco Strong Back Series	
Manhole Lining	Raven 405	
Sewer Lateral connections to main	Inserta Tee or SDR 35 wye	
Air/Vacuum Release Valves	1" Combination Air Valve: APCO Model 443 2" Combination Air Valve: APCO Model 445 4" Combination Air Valve: APCO Model 449 6" Combination Air Valve: APCO Model 456 ARI (Model D-020/D-025) (stainless steel only)	
Manhole frame & covers	Titus Twist Lock Composite South Bay Foundry 24" cast iron	
Mainline Liner	Reline America CIPP	